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| Notice of Allowability   | Application No.  | Applicant(s)  |
|  | 09/711,476   | CASKEY ET AL.   |
|  | Examiner   | Art Unit  |
|  | Jeffrev Fredman  | 1637  |
| The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  1. ☑ This communication is responsive to July 11, 2005.  2. ☑ The allowed claim(s) is/are 42,54-62,64 and 65.  3. ☑ The drawings filed on 10 December 2002 are accepted by 4. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☑ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have https://documents.no.in/linearing/particles/particle | (OR REMAINS) CLOSED in or other appropriate communication is sand MPEP 1308.  the Examiner.  der 35 U.S.C. § 119(a)-(d) of the description is sand in the examiner.  been received.  been received in Application cuments have been received in the examiner.  of this communication to file ENT of this application.  tted. Note the attached EXA is reason(s) why the oath or the submitted. | a this application. If not included unication will be mailed in due course. THIS subject to withdrawal from issue at the initiative or (f).  In No. 08/564,100. If in this national stage application from the a reply complying with the requirements a subject to withdrawal from the declaration is deficient. |
| (a) ☐ including changes required by the Notice of Draitsperso  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  | on's Patent Drawing Review   | (PTO-948) attached  |
| (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the paper of the paper o    | 84(c)) should be written on the header according to 37 CFI   | e drawings in the front (not the back) of<br>R 1.121(d).<br>:RIAL must be submitted. Note the   |
| Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material   | 6. ☐ Interview Su<br>Paper No./I<br>3), 7. ☐ Examiner's  | ormal Patent Application (PTO-152) Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance  JEFFREY FREDMAN PRIMARY EXAMINER   |
|  |  | This X  |

Application/Control Number: 09/711,476

Art Unit: 1637

## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 11, 2005 has been entered.

## REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance: As before, claim 42 is drawn to an embodiment in which the oligonucleotide array is regenerated by digestion of the newly added nucleotide after completion of the assay. The cited prior art of Soderlund, Goulet, Rust, or Cantor in the IDS, do not teach regeneration of the array by cleavage mechanisms. This claim is novel and unobvious. Claims 54-62, 64 and 65 are drawn to a method in which the single base extension, on an array, uses a series of consecutive primers (often termed a tiled array) as described in claim 54. This description in claim 54 is directly based on figure 1 of the application and also finds support in figure 2 of the Swedish priority document and the description in the specification of the Swedish priority document. The disclosure of the consecutive primers is an inherent theory which uses different words that teach the limitations of claim 54 as per MPEP 2163.02 and 2163.07. None of the cited prior art of Soderlund, Goulet, Rust or Cantor teach or suggest the use of consecutive primers or tiled arrays

Application/Control Number: 09/711,476

Art Unit: 1637

whatsoever. The oldest reference that appears to be combinable with Soderlund and suggests the use of tiled arrays is Chee et al (U.S. Patent 5,861,242), but Chee is not prior art, even if given the earliest priority date, because Chee was filed several days after the Swedish application from which the current application receives benefit.

Further with regard to claim 65, this claim has an additional reason for allowance in that there is no teaching in Soderlund, Southern or Goelet to use dinucleotides, nor in any of the other cited prior art. Soderlund uses two nucleotides sequentially as in figure 3, but never a single dinucleotide molecule for termination.

For these reasons, the claimed invention is novel and unobvious over the cited prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Fredman whose telephone number is (571)272-0742. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571)272-0782. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/711,476 Page 4

Art Unit: 1637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey Fredman Primary Examiner

Art Unit 1,637